

**EML**

# PROCEDURES MANUAL

**General**

**Quality Assurance**

**Sampling**

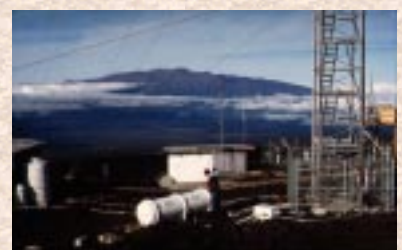
**Radiation Measurements**

**Analytical Chemistry**

**Radionuclide Data**

**Special Facilities**

**Specifications**



**28th Edition**



**Environmental Measurements Laboratory  
U.S. Department of Energy**







# PROCEDURES MANUAL

*Announcing: 28th Edition of the Manual is now available On-Line*

*<http://www.eml.doe.gov/procman/intro1.htm>*

EML's HASL-300 Procedures Manual was first published in 1957 for the U.S. Atomic Energy Commission. The laboratory was then known as the Health and Safety Laboratory (HASL). Now celebrating its 50th anniversary, EML invites you to visit the EML Web Site and browse through the revised and updated version of the HASL-300 Procedures Manual. The Procedures Manual is a recognized reference with over 500 national and 300 international institutes on its distribution list.



## ***NEW in Radiochemical Analytical Methods***

- Am-04: Americium in Water and Air Filters
- Am-06: Americium and/or Plutonium in Vegetation
- Fe-01: Iron in Aqueous Samples - Dual-DPM Mode Liquid Scintillation Analysis
- <sup>3</sup>H-04: Tritium in Water - Liquid Scintillation Counting
- Pb-02: Determination of Lead in Bone Ash by Measurement of Polonium
- Pu-11: Plutonium Purification - Ion Exchange Technique
- Pu-12: Plutonium and/or Americium in Soil or Sediments
- Sr-03: Strontium-90 in Environmental Matrices
- Sr-04: Strontium-90 in Water Containing Other Radioisotopes by Cerenkov Counting

## ***NEW in Sequential Radiochemical Methods***

- Se-02: Isotopic Uranium, Isotopic Thorium and Radium-226
- Se-03: Americium, Plutonium and Uranium in Water

Radiochemistry methods approved for EPA Drinking Water Regulations (40CFR141.25)

## ***NEW in Aerosols Sampling***

- MOUDI
- Graded Screen Array
- Mathematical Analysis of Particle Size Data

## ***NEW in Radon and Thoron Sampling***

- Two-Filter Tube Sampling
- <sup>220</sup>Rn and <sup>222</sup>Rn in Soil Gas

## ***NEW in Radiation Measurements***

- Remote Gamma-Ray Spectrometry Stations
- Thermoluminescence Dosimetry

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